NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE

The National Space Biomedical Research Institute (NSBRI) is a unique, non-profit scientific organization that partners with and is supported by NASA's Human Research Program (HRP).

NSBRI'S TWO PART MISSION

NSBRI leads a national effort to conduct the integrated, critical path, biomedical research necessary to support long-term human presence, development and exploration of space and enhances life on Earth by applying the resulting advances in human knowledge and technology.

NSBRI'S CONSORTIUM MEMBERS

NSBRI has established a biomedical research network with governance by twelve leading institutions.

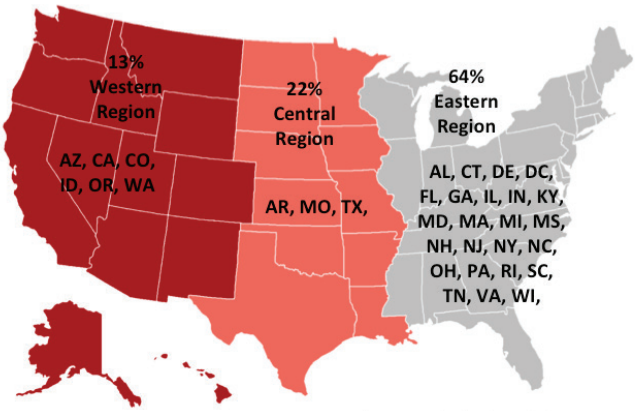
NSBRI'S SCIENCE & TECHNOLOGY TEAMS

- CARDIOVASCULAR ALTERATIONS
- HUMAN FACTORS AND PERFORMANCE
- MUSCULOSKELETAL ALTERATIONS
- NEUROBEHAVIORAL & PSYCHOSOCIAL FACTORS
- RADIATION EFFECTS
- SENSORIMOTOR ADAPTATION
- SMART MEDICAL SYSTEMS & TECHNOLOGY

- The science and technology program aids NASA by accelerating the transfer of findings from the laboratory to spaceflight and clinical applications.
- Seven teams lead the way in space biomedical and technological advances.
- Teams are driven by thought leaders competitively selected from prestigious institutions who are subject matter experts.
- Portfolio comprises approximately 60 projects that are addressing the risks inherent to human spaceflight.

FIND OUT MORE AT WWW.NSBRI.ORG

WHO DOES NSBRI FUND?



Notes: Cumulative Research, Technology, and Career Development since 1997

NSBRI AT A GLANCE (FY97-FY15)

METRICS	Since 1997	Annually
Funding from NASA	$410M	$20M
Unique Projects	517	60+
Institutions Funded	148	60
Unique Principal Investigators	401	100+
Number of States	33	20+

CAREER DEVELOPMENT AND OUTREACH PROGRAM

- Prepares the next generation of space life scientists, engineers, and physicians for careers in academia, industry, and government.
- Provides enriching STEM educational and research opportunities for K-12 students, undergraduates, graduates, and post-graduates.
- Serves as an important national resource, allocating funding capabilities to support quality research-based STEM programs.

PARTNERING WITH INDUSTRY

- Cultivates partnerships with private industry to commercialize biomedical discoveries made for space and to develop space-compatible healthcare solutions.
- SMARTCAP funding is available for small businesses (medical devices, software, pharmaceuticals) to accelerate medical innovations that solve unique challenges of human spaceflight while developing new market opportunities on Earth.

NSBRI Industry Forum

SMARTCAP
Space Medical And Related Technologies Commercialization Assistance Program

www.nsbriforum.org
@space_medical

NSBRI'S USER PANEL

- Draws on knowledge of current and former astronauts and flight surgeons.
- Evaluates science & technology projects based on operational feasibility for implementation within the space environment.

Former Astronauts Eileen M. Collins, Colonel, USAF (Ret.) and Leroy Chiao, Ph.D., with NSBRI funded investigator and Team Leader Gary Strangman, Ph.D.

SPACE 4 BIOMEDICINE (S4B)

- Headquarters and site of Baylor College of Medicine's Center for Space Medicine.
- Collaborative initiative of NSBRI, NASA, Baylor College of Medicine, and Rice University.
- The 16,400 square foot area has reconfigurable laboratories and work spaces that serve as a resource for visiting scientists and NSBRI investigators.
- Astro-Omics, Biomedical Innovation, and Exploration Medicine Laboratories performing scientific research within the CRF.